



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

January 13, 2010

Sent Via US Mail and Email – chadparker@jacksonnc.org

Mr. Chad Parker
Jackson County Solid Waste
401 Grindstaff Cove Road
Suite A-207
Sylva, NC 28779

Re: *Groundwater and Soil Assessment Report*
Jackson County Scott Creek MSW and C&D Transfer Facility, Permit # 50-03T

Dear Mr. Parker:

The Solid Waste Section has completed a review of the *Groundwater and Soil Assessment Report* dated October 29, 2010 and submitted on behalf of Jackson County by Altamont Environmental, Inc. for the Jackson County Scott Creek MSW and C&D Transfer Facility. The *Groundwater and Soil Assessment Report* was submitted as a subsequent correspondence pursuant to a Compliance Order With Administrative Penalty issued by the Division of Waste Management, Solid Waste Section on December 29, 2009 for the violation of 15A NCAC 13B .0402(3) and pursuant to the letters issued by the Solid Waste Section on May 3, 2010, June 3, 2010, and July 22, 2010.

The *Groundwater and Soil Assessment Report* included groundwater monitoring well installation (MW-01, MW-02, and MW-03), soil sampling, well development, groundwater sampling, and soil and groundwater analyses. Soil samples were collected during the installation of groundwater monitoring wells MW-01 and MW-03 at 5, 10, and 15 feet below ground surface. No volatile organic compounds were detected in any of the soil samples collected from MW-01 and MW-03. However, metals were detected in all of the soil samples collected from MW-01 and MW-03. Most of the metal concentrations detected within all the soil samples from MW-01 are lower than the metal concentrations detected from the background well, MW-03, except for Arsenic, Barium, Beryllium, Lead, Vanadium, and Zinc. Vanadium was only metal detected above NCDENR's Inactive Hazardous Sites Branch Soil Remediation Goals.

Groundwater samples were also collected from the three new groundwater monitoring wells. No volatile organic compounds were detected in any of the groundwater samples that exceeded the NC Groundwater Standards. However, several metal concentrations were detected at concentrations that exceed the NC Groundwater Standards. Cobalt, Iron, Manganese, and Vanadium exceeded the NC Groundwater Standards within MW-01. Iron and Vanadium exceeded the NC Groundwater Standards within MW-02. Chromium, Cobalt, Iron, Manganese, Nickel, and Vanadium exceeded the NC Groundwater Standards within MW-03. Per the *Groundwater and Soil Assessment Report*, several metals were detected above the Groundwater Standards within both the soil and the groundwater samples collected, no volatile organic compounds were detected within the soils samples collected, and no volatile organic compounds were detected within the samples collected from the groundwater monitoring wells.

In addition, per the *Groundwater and Soil Assessment Report*, the water that had been in contact with the solid waste has not impacted soil or groundwater quality within the vicinity of the downgradient groundwater monitoring wells MW-01 and MW-02, and the County has no recommendations for further action at the facility.

As a result, based upon the sampling results from the environmental assessment for the 2009 leachate release, there appears to be no residual contamination from the 2009 leachate release that occurred at the facility at this time. However, in the future, the Solid Waste Section may require additional environmental sampling, the installation of additional groundwater monitoring wells, and/or corrective action in response to this leachate release. Also, the groundwater monitoring wells MW-01, MW-02, and MW-03 are not required to be routinely sampled at this time, however, please do not abandon the groundwater monitoring wells.

If you have any questions or concerns regarding this letter, please contact me at 919-508-8500 or by email at jaclynne.drummond@ncdenr.gov.

Sincerely,



Jaclynne Drummond
Compliance Hydrogeologist
Solid Waste Section

cc via email: Chuck Wooten, Interim Jackson County Manager (JacksonCoMgr@jacksonnc.org)
Mark Poindexter, Field Operations Supervisor
Deb Aja, Western District Supervisor
Troy Harrison, Environmental Senior Specialist